

**This Page Is Inserted by IFW Operations
and is not a part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- **BLACK BORDERS**
- **TEXT CUT OFF AT TOP, BOTTOM OR SIDES**
- **FADED TEXT**
- **ILLEGIBLE TEXT**
- **SKEWED/SLANTED IMAGES**
- **COLORLED PHOTOS**
- **BLACK OR VERY BLACK AND WHITE DARK PHOTOS**
- **GRAY SCALE DOCUMENTS**

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problems Mailbox.**



#9

SEQUENCE LISTING

<110> Haussler, David
Winters-Hilt, Stephen
Akeson, Mark
Vercountere, Wenonah

<120> Methods and Devices for Characterizing
Duplex Nucleic Acid Molecules

<130> UCAL199

<140> 09/990,102

<141> 2001-11-21

<150> 60/253,393

<151> 2000-11-27

<160> 22

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide

<400> 1

ccgttttcgg

10

<210> 2

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide

<400> 2

cacgttttcg tg

12

<210> 3

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide

<400> 3

gaacgttttc gttc

14

<210> 4

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide

<400> 4

cgaacgtttt cgttcg

16

<210> 5

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide

<400> 5

ctgaacgttt tcgttcag

18

<210> 6

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide

<400> 6

ctcgaacgtt ttcgttcgag

20

<210> 7

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide

<400> 7

cttcgaacgt tttcgttcga ag

22

<210> 8

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide

<400> 8

caacgtttcg ttg

13

31
Cont

<210> 9
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 9
cgaacgtttt cgtacg

16

<210> 10
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 10
tctgaacggt ttcgttcag

19

<210> 11
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 11
gaacgttttc gttcgaacgt tttcgttc

28

<210> 12
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 12
gttcgaacgt tttcgttcga ac

22

<210> 13
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 13
cttcgaacgt tttcgttcga ag

22

<210> 14
<211> 22

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 14
attcgaacgt tttcggttcga at 22

<210> 15
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 15
tttcgaacgt tttcggttcga aa 22

<210> 16
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 16
tttcgaacgt tttcggttcga ag 22

<210> 17
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 17
tttcgaacgt tttcggttcga at 22

<210> 18
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<221> modified_base
<222> (1)...(1)
<223> N is difluorotoluene

<400> 18
nttcgaacgt tttcggttcga aa 22

<210> 19
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 19
gatcgaacgt tttcggttcga tc 22

<210> 20
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 20
catcgaacgt tttcggttcga tg 22

<210> 21
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

31
<400> 21
aatcgaacgt tttcggttcga tt 22

<210> 22
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 22
tatcgaacgt tttcggttcga ta 22
